

Table III-3
Predicted FTP Emission Rates

Model-Year	Predicted FTP Emission Rates by Model-Year for Vehicles Tested on Roadside After a BAR97 ASM Smog Check Inspection*				Predicted FTP Emission Rates by Model-Year for Vehicles Tested on Roadside Before a BAR97 ASM Smog Check Inspection				EMFAC2000 Travel Fraction Numbers		Percent Emission Reductions		
	# tested	HC mean (g/mi)	NOx mean (g/mi)	CO mean (g/mi)	# tested	HC mean (g/mi)	NOx mean (g/mi)	CO mean (g/mi)	Avg Annual VMT per Vehicle	Number of Vehicles	HC % Reduction	NOx % Reduction	CO % Reduction
1966	24	8.62 +/- 2.31	1.86 +/- 0.46	97.6 +/- 32.4	24	8.62 +/- 2.31	1.86 +/- 0.46	97.6 +/- 32.4	4,747	53,895	0%	0%	0%
1967	20	10.77 +/- 5.35	2.34 +/- 0.68	109 +/- 39.7	20	10.77 +/- 5.35	2.34 +/- 0.68	109 +/- 39.7	4,882	52,517	0%	0%	0%
1968	29	7.81 +/- 3.28	2.2 +/- 0.52	77.1 +/- 25.2	29	7.81 +/- 3.28	2.2 +/- 0.52	77.1 +/- 25.2	5,097	56,954	0%	0%	0%
1969	17	9.62 +/- 4.94	3.16 +/- 1	96.9 +/- 39.8	17	9.62 +/- 4.94	3.16 +/- 1	96.9 +/- 39.8	5,406	67,527	0%	0%	0%
1970	30	6.83 +/- 1.81	2.65 +/- 0.65	78.2 +/- 24.7	30	6.83 +/- 1.81	2.65 +/- 0.65	78.2 +/- 24.7	5,581	67,262	0%	0%	0%
1971	22	6.08 +/- 1.76	2.66 +/- 0.69	77.9 +/- 31.6	22	6.08 +/- 1.76	2.66 +/- 0.69	77.9 +/- 31.6	5,858	63,591	0%	0%	0%
1972	32	9.25 +/- 7.66	2.59 +/- 0.67	77.1 +/- 24.4	32	9.25 +/- 7.66	2.59 +/- 0.67	77.1 +/- 24.4	6,182	78,583	0%	0%	0%
1973	62	8.18 +/- 2.99	2.43 +/- 0.37	79.1 +/- 17.5	62	8.18 +/- 2.99	2.43 +/- 0.37	79.1 +/- 17.5	6,419	90,103	0%	0%	0%
1974	14	6.82 +/- 5.92	3.17 +/- 1.18	52.6 +/- 26.8	42	9.05 +/- 4.3	3.16 +/- 0.63	73.4 +/- 20.4	6,709	78,837	25%	0%	28%
1975	15	5.16 +/- 3.14	2.79 +/- 1.17	51.8 +/- 28.7	28	5.08 +/- 1.44	2.61 +/- 0.75	73.6 +/- 28	6,809	64,926	-2%	-7%	30%
1976	18	4.5 +/- 1.55	2.53 +/- 0.78	72 +/- 31.9	40	8 +/- 6.52	2.82 +/- 0.72	56.4 +/- 15.8	6,838	95,247	44%	10%	-28%
1977	52	5.29 +/- 3.54	2.59 +/- 0.45	51.6 +/- 16.2	89	6.74 +/- 3.37	2.65 +/- 0.35	55.9 +/- 12.7	6,877	139,192	22%	2%	8%
1978	48	3.89 +/- 1.75	2.59 +/- 0.51	45.6 +/- 15.2	104	6.28 +/- 1.96	2.79 +/- 0.41	49.2 +/- 10.6	7,058	181,555	38%	7%	7%
1979	68	4.56 +/- 1.5	2.29 +/- 0.37	46.6 +/- 12.4	122	4.59 +/- 1.56	2.57 +/- 0.33	47.6 +/- 9.4	7,221	216,558	1%	11%	2%
1980	60	4.11 +/- 2.38	1.88 +/- 0.33	52.7 +/- 16.4	110	3.56 +/- 0.64	2.06 +/- 0.27	55.6 +/- 10.9	7,372	204,851	-15%	9%	5%
1981	65	2.63 +/- 0.55	2.15 +/- 0.34	39.7 +/- 12	121	3.93 +/- 0.95	2.07 +/- 0.28	53.5 +/- 9.9	7,588	237,671	33%	-4%	26%
1982	98	3.51 +/- 1.35	1.85 +/- 0.26	36.6 +/- 8.7	144	3.2 +/- 0.61	1.91 +/- 0.23	45.6 +/- 8	7,838	283,631	-10%	3%	20%
1983	131	2.03 +/- 0.34	1.95 +/- 0.23	27.3 +/- 6.4	208	2.98 +/- 0.54	2.27 +/- 0.22	37.5 +/- 5.8	8,076	335,757	32%	14%	27%
1984	216	1.98 +/- 0.24	1.84 +/- 0.18	26.1 +/- 4.4	319	2.92 +/- 0.48	1.93 +/- 0.16	38.7 +/- 4.9	8,438	515,691	32%	5%	33%
1985	305	1.91 +/- 0.2	1.71 +/- 0.14	25.3 +/- 3.6	460	2.38 +/- 0.39	1.8 +/- 0.13	27.8 +/- 3.3	8,707	604,220	20%	5%	9%
1986	366	1.36 +/- 0.12	1.58 +/- 0.12	17 +/- 2.3	515	1.66 +/- 0.14	1.64 +/- 0.11	20.8 +/- 2.3	9,068	702,896	18%	4%	18%
1987	363	1.46 +/- 0.19	1.45 +/- 0.11	17.2 +/- 2.3	456	1.48 +/- 0.14	1.52 +/- 0.11	19.1 +/- 2.2	9,268	759,854	1%	5%	10%
1988	343	1.06 +/- 0.13	1.21 +/- 0.1	12.4 +/- 1.8	417	1.3 +/- 0.16	1.41 +/- 0.11	14.4 +/- 1.8	9,516	796,862	18%	14%	14%
1989	364	0.92 +/- 0.13	1.12 +/- 0.1	9.8 +/- 1.2	518	0.9 +/- 0.08	1.13 +/- 0.08	10.5 +/- 1	9,815	838,469	-2%	1%	7%
1990	321	0.72 +/- 0.07	0.96 +/- 0.09	8.5 +/- 1	444	0.78 +/- 0.08	0.95 +/- 0.08	8.6 +/- 0.9	10,095	748,071	8%	-1%	1%
1991	326	0.54 +/- 0.05	0.75 +/- 0.07	6.2 +/- 0.7	448	0.62 +/- 0.06	0.84 +/- 0.07	7.3 +/- 0.8	10,485	735,327	13%	11%	15%
1992	69	0.56 +/- 0.11	0.77 +/- 0.14	6.7 +/- 1.5	132	0.66 +/- 0.12	0.82 +/- 0.13	7.8 +/- 1.9	10,831	640,134	15%	6%	14%
1993	63	0.38 +/- 0.08	0.52 +/- 0.09	4.8 +/- 1.2	139	0.42 +/- 0.06	0.57 +/- 0.08	5.2 +/- 0.8	11,220	717,652	10%	9%	8%
1994	104	0.34 +/- 0.05	0.49 +/- 0.08	4.4 +/- 0.8	157	0.36 +/- 0.05	0.55 +/- 0.07	4.8 +/- 0.7	11,600	750,436	6%	11%	8%
1995	51	0.27 +/- 0.06	0.41 +/- 0.09	3.4 +/- 0.8	237	0.33 +/- 0.04	0.49 +/- 0.06	4.3 +/- 0.6	11,962	858,929	18%	16%	21%
1996	232	0.22 +/- 0.02	0.34 +/- 0.03	3 +/- 0.4	232	0.22 +/- 0.02	0.34 +/- 0.03	3 +/- 0.4	12,393	806,356	0%	0%	0%
1997	61	0.2 +/- 0.04	0.3 +/- 0.06	2.3 +/- 0.5	61	0.2 +/- 0.04	0.3 +/- 0.06	2.3 +/- 0.5	12,838	991,760	0%	0%	0%
1998	64	0.17 +/- 0.03	0.24 +/- 0.05	2 +/- 0.4	64	0.17 +/- 0.03	0.24 +/- 0.05	2 +/- 0.4	13,338	1,012,536	0%	0%	0%
1999	11	0.12 +/- 0.05	0.17 +/- 0.05	1.6 +/- 0.8	11	0.12 +/- 0.05	0.17 +/- 0.05	1.6 +/- 0.8	13,871	992,526	0%	0%	0%
Wt Avg:	4,064	1.029 +/- 0.06	0.89 +/- 0.3	12.1 +/- 0.06	5,854	1.19 +/- 0.06	0.94 +/- 0.02	13.7 +/- 0.4			13%	6%	12%

*The 1973 and older, and the 1996 and newer vehicles were exempt from the biennial inspection requirements. Thus, the "Before" and "After" emission rates for these model years are the same.